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Greatest polymaths of all time

"Universal man" redirects here. For the sculpture by Canadian artist Gerald Gladstone, see Universal Man. "Polyhistor" redirects here. For the ancient Greek scholar, see Alexander Polyhistor. For other uses, see Polymath (disambiguation). Individual whose knowledge spans a substantial number of subjects Various polymaths from throughout history, clockwise from top left: Aristotle, Shen Kuo, Leonardo da Vinci and Avicenna A polymath (Greek: πολυμαθής, polymathēs, "having learned much"; Latin: homo universalis, "universal person")[1] is an individual whose knowledge spans a substantial number of subjects, known to draw on complex bodies of knowledge to solve specific problems. In Western Europe, the first work to use the term polymathy in its title (De Polymathia tractatio: integri operis de studiis veterum) was published in 1603 by Johann von Wovern, a Hamburg philosopher.[2][3][4] Von Wovern defined polymathy as "knowledge of various matters, drawn from all kinds of studies ... ranging freely through all the fields of the disciplines, as far as the human mind, with unwearied industry, is able to pursue them".[2] Von Wovern lists erudition, literature, philology, philomathy and polyhistory as synonyms. The earliest recorded use of the term in the English language is from 1624, in the second edition of The Anatomy of Melancholy by Robert Burton;[5] the form polymathist is slightly older, first appearing in the Diatribae upon the first part of the late History of Tithes of Richard Montagu in 1621.[6] Use in English of the similar term polyhistor dates from the late sixteenth century.[7] Polymaths include the great scholars and thinkers of the Islamic Golden Age, Renaissance and Enlightenment, who excelled at several fields in science, technology, engineering, mathematics, and the arts. In the Italian Renaissance, the idea of the polymath was expressed by Leon Battista Alberti (1404–1472) in the statement that "a man can do all things if he will".[8] Gottfried Wilhelm Leibniz has often been seen as a polymath. Embodying a basic tenet of Renaissance humanism that humans are limitless in their capacity for development, the concept led to the notion that people should embrace all knowledge and develop their capacities as fully as possible. This is expressed in the term Renaissance man, often applied to the gifted people of that age who sought to develop their abilities in all areas of accomplishment: intellectual, artistic, social, physical, and spiritual. Renaissance man "Renaissance man" redirects here. For use as a title of cultural works, see Renaissance Man. "Renaissance man" was first recorded in written English in the early 20th century.[9] It is used to refer to great thinkers living before, during, or after the Renaissance. Leonardo da Vinci has often been described as the archetype of the Renaissance man, a man of "unquenchable curiosity" and "feverishly inventive imagination".[10] Many notable polymaths lived during the Renaissance period, a cultural movement that spanned roughly the 14th through to the 17th century that began in Italy in the Late Middle Ages and later spread to the rest of Europe. These polymaths had a rounded approach to education that reflected the ideals of the humanists of the time. A gentleman or courtier of that era was expected to speak several languages, play a musical instrument, write poetry and so on, thus fulfilling the Renaissance ideal. The idea of a universal education was essential to achieving polymath ability, hence the word university was used to describe a seat of learning. However, the original Latin word universitas refers in general to "a number of persons associated into one body, a society, company, community, guild, corporation, etc."[11] At this time, universities did not specialize in specific areas, but rather trained students in a broad array of science, philosophy and theology. This universal education gave those a grounding from which they could continue into apprenticeship toward becoming a master of a specific field. When someone is called a "Renaissance man" today, it is meant that rather than simply having broad interests or superficial knowledge in several fields, the individual possesses a more profound knowledge and a proficiency, or even an expertise, in at least some of those fields.[12] Some dictionaries use the term "Renaissance man" to describe someone with many interests or talents,[13] while others give a meaning restricted to the Renaissance and more closely related to Renaissance ideals. In academia Robert Root-Bernstein and colleagues Robert Root-Bernstein is considered the principal responsible for rekindling interest in polymathy in the scientific community.[14][15] His works emphasize the contrast between the polymath and two other types: the specialist and the dilettante. The specialist demonstrates depth but lacks breadth of knowledge. The dilettante demonstrates superficial breadth but tend to acquire skills merely "for their own sake without regard to understanding the broader applications or implications and without integrating it" (R. Root-Bernstein, 2009, p. 857). Conversely, the polymath is a person with a level of expertise that is able to "put a significant amount of time and effort into their avocations and find ways to use their multiple interests to inform their vocations" (R. Root-Bernstein, 2009, p. 857).[16][17][18][19][20] A key point in the work of Root-Bernstein and colleagues is the argument in favor of the universality of the creative process. That is, although creative products, such as a painting, a mathematical model or a poem, can be domain-specific, at the level of the creative process, the mental tools that lead to the generation of creative ideas are the same, be it in the arts or science.[18] These mental tools are sometimes called intuitive tools of thinking. It is therefore not surprising that many of the most innovative scientists have serious hobbies or interests in artistic activities, and that some of the most innovative artists have an interest or hobbies in the sciences.[16][19][21][22] Root-Bernstein and colleagues' research is an important counterpoint to the claim by some psychologists that creativity is a domain-specific phenomenon. Through their research, Root-Bernstein and colleagues conclude that there are certain comprehensive thinking skills and tools that cross the barrier of different domains and can foster creative thinking. "[c]reativity researchers] who discuss integrating ideas from diverse fields as the basis of creative giftedness ask not 'who is creative?' but 'what is the basis of creative thinking?'" From the polymathy perspective, giftedness is the ability to combine disparate (or even apparently contradictory) ideas, sets of problems, skills, talents, and knowledge in novel and useful ways. Polymathy is therefore the main source of any individual's creative potential" (R. Root-Bernstein, 2009, p. 854). In "Life Stages of Creativity", Robert and Michèle Root-Bernstein suggest six typologies of creative life stages. These typologies based on real creative production records first published by Root-Bernstein, Bernstein, and Garnier (1993). Type 1 represents people who specialize in developing one major talent early in life (e.g., prodigies) and successfully exploit that talent exclusively for the rest of their lives. Type 2 individuals explore a range of different creative activities (e.g., through worldplay or a variety of hobbies) and then settle on exploiting one of these for the rest of their lives. Type 3 people are polymathic from the outset and manage to juggle multiple careers simultaneously so that their creativity pattern is constantly varied. Type 4 creators are recognized early for one major talent (e.g., math or music) but go on to explore additional creative outlets, diversifying their productivity with age. Type 5 creators devote themselves serially to one creative field after another. Type 6 people develop diversified creative skills early and then, like Type 5 individuals, explore these serially, one at a time. Finally, his studies suggest that understanding polymathy and learning from polymathic exemplars can help structure a new model of education that better promotes creativity and innovation: "we must focus education on principles, methods, and skills that will serve them [students] in learning and creating across many disciplines, multiple careers, and transcending life stages" (R. Root-Bernstein & M. Root-Bernstein, 2017, p. 161).[23] Peter Burke Peter Burke, Professor Emeritus of Cultural History and Fellow of Emmanuel College at Cambridge, discussed the theme of polymathy in some of his works. He has presented a comprehensive historical overview of the ascension and decline of the polymath as, what he calls, an "intellectual species" (see Burke, 2020, 2012, 2010).[24][25][26] He observes that in ancient and medieval times, scholars did not have to specialize. However, from the 17th century on, the rapid rise of new knowledge in the Western world—both from the systematic investigation of the natural world and from the flow of information coming from other parts of the world—was making it increasingly difficult for individual scholars to master as many disciplines as before. Thus, an intellectual retreat of the polymath species occurred: "from knowledge in every [academic] field to knowledge in several fields, and from making original contributions in many fields to a more passive consumption of what has been contributed by others" (Burke, 2010, p. 72). Given this change in the intellectual climate, it has since then been more common to find "passive polymaths", who consume knowledge in various domains but make their reputation in one single discipline, than "proper polymaths", who—through a feat of "intellectual heroism"—manage to make serious contributions to several disciplines. However, Burke warns that in the age of specialization, polymathic people are more necessary than ever, both for synthesis—to paint the big picture—and for analysis. He says: "It takes a polymath to 'mind the gap' and draw attention to the knowledges that may otherwise disappear into the spaces between disciplines, as they are currently defined and organized" (Burke, 2012, p. 183). Finally, he suggests that governments and universities should nurture a habitat in which this "endangered species" can survive, offering students and scholars the possibility of interdisciplinary work. Kaufman, Beghetto and colleagues James C. Kaufman, from the Neag School of Education at the University of Connecticut, and Ronald A. Beghetto, from the same university, investigated the possibility that everyone could have the potential for polymathy as well as the issue of the domain-generality or domain-specificity of creativity.[27][28] Based on their earlier four-c model of creativity, Beghetto and Kaufman[29][30] proposed a typology of polymathy, ranging from the ubiquitous mini-c polymathy to the eminent but rare Big-C polymathy, as well as a model with some requirements for a person (polymath or no) to be able to reach the highest levels of creative accomplishment. They account for three general requirements—intelligence, motivation to be creative and an environment that allows creative expression—that are needed for any attempt at creativity to succeed. Then, depending on the domain of choice, more specific abilities will be required. The more that one's abilities and interests match the requirements of a domain, the better. While some will develop their specific skills and motivations for specific domains, polymathic people will display intrinsic motivation (and the ability) to pursue a variety of subject matters across different domains.[30] Regarding the interplay of polymathy and education, they suggest that rather than asking whether every student has multicreative potential, educators might more actively nurture the multicreative potential of their students. As an example, the authors cite that teachers should encourage students to make connections across disciplines, use different forms of media to express their reasoning/understanding (e.g., drawings, movies, and other forms of visual media).[27] Bharath Sriraman Bharath Sriraman, of the University of Montana, also investigated the role of polymathy in education. He poses that an ideal education should nurture talent in the classroom and enable individuals to pursue multiple fields of research and appreciate both the aesthetic and structural/scientific connections between mathematics, arts and the sciences.[31] In 2009, Sriraman published a paper reporting a 3-year study with 120 pre-service mathematics teachers and derived several implications for mathematics pre-service education as well as interdisciplinary education.[15] He utilized a hermeneutic-phenomenological approach to recreate the emotions, voices and struggles of students as they tried to unravel Russell's paradox presented in its linguistic form. They found that those more engaged in solving the paradox also displayed more polymathic thinking traits. He concludes by suggesting that fostering polymathy in the classroom may help students change beliefs, discover structures and open new avenues for interdisciplinary pedagogy.[15] Michael Araki The Developmental Model of Polymathy (DMP) Michael Araki is a professor at Universidade Federal Fluminense in Brazil. He sought to formalize in a general model how the development of polymathy takes place. His Developmental Model of Polymathy (DMP) is presented in a 2018 article with two main objectives: (i) organize the elements involved in the process of polymathy development into a structure of relationships that is wed to the approach of polymathy as a life project, and (ii) provide an articulation with other well-developed constructs, theories and models, especially from the fields of giftedness and education.[32] The model, which was designed to reflect a structural model, has five major components: (1) polymathic antecedents, (2) polymathic mediators, (3) polymathic achievements, (4) intrapersonal moderators, and (5) environmental moderators.[32] Regarding the definition of the term polymathy, the researcher, through an analysis of the extant literature, concluded that although there are a multitude of perspectives on polymathy, most of them ascertain that polymathy entails three core elements: breadth, depth and integration.[32][33][34] Breadth refers to comprehensiveness, extension and diversity of knowledge. It is contrasted with the idea of narrowness, specialization, and the restriction of one's expertise to a limited domain. The possession of comprehensive knowledge at very disparate areas is a hallmark of the greatest polymaths. Depth refers to the vertical accumulation of knowledge and the degree of elaboration or sophistication of one's sets of one's conceptual network. Like Robert Root-Bernstein, Araki uses the concept of diletancy as a contrast to the idea of profound learning that polymathy entails. Integration, although not explicit in most definitions of polymathy, is also a core component of polymathy according to the author. Integration involves the capacity of connecting, articulating, concatenating or synthesizing different conceptual networks, which in non-polymathic persons might be segregated. In addition, integration can happen at the personality level, when the person is able to integrate his or her diverse activities in a synergic whole, which can also mean a psychic (motivational, emotional and cognitive) integration. Finally, the author also suggests that, via a psychoeconomic approach, polymathy can be seen as a "life project". That is, depending on a person's temperament, endowments, personality, social situation and opportunities (or lack thereof), the project of a polymathic self-formation may present itself to the person as more or less alluring and more or less feasible to be pursued.[32] Related terms Aside from "Renaissance man" as mentioned above, similar terms in use are homo universalis (Latin) and uomo universale (Italian), which translate to "universal man".[11] The related term "generalist"—contrasted with a "specialist"—is used to describe a person with a general approach to knowledge. The term "universal genius" or "versatile genius" is also used, with Leonardo da Vinci as the prime example again. The term is used especially for people who made lasting contributions in at least one of the fields in which they were actively involved and when they took a universality of approach. When a person is described as having encyclopedic knowledge, they exhibit a vast scope of knowledge. However, this designation may be anachronistic in the case of persons such as Eratosthenes, whose reputation for having encyclopedic knowledge predates the existence of any encyclopedic object. See also Allamah Amateur Competent man Creative class Genius Golden Age of Islam, many polymaths included Jack of all trades, master of none Multipotentiality Opismath Philomath Polyglotism Polygraph (author) Polymatheia - a muse of knowledge in Greek mythology References and notes ^ a b "Ask The Philosopher: Tim Southommasane - The quest for renaissance man". The Australian. 10 April 2010. 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